WE CLAIM:

1	1.	A method for displaying data representing the operation of an exchange,
2	comprising:	
3		maintaining data representing a three dimensional model of said exchange
4	trading area, said mo	del including surfaces;
5		receiving and maintaining in a computer memory data representing
6	exchange operations	;
7		generating a two dimensional display representing a selected aspect view
8	of said three dimensi	onal model, said two dimensional display including perspective views of at
9	least some of said su	rfaces of said model;
<u>(</u> †10		generating alphanumeric images of selected data representing exchange
10 11	operations; and	
1-12		mapping said alphanumeric images onto selected ones of said perspective
12 13	views.	
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1	2.	A method as specified in claim 1 wherein there is provided the further
2	steps of:	$m{arkappa}^{*}$.
3		changing said selected aspect view of said three dimensional model;
4		generating a further two dimensional display representing said changed
5	aspect view, said fur	ther two dimensional display including further perspective views of at least
6	some of said surface	s of said model; and

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7	mapping said alphanumeric images onto selected ones of said further
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8	perspective views in said further two-dimensional display.

- 3. A method as specified in claim 1 wherein portions of said two dimensional display are selectable, said selectable display portions being operable when selected for displaying further data correlated to said selectable display portions.
 - 4. A method as specified in claim 3 wherein at least some of said selectable display portions comprise said perspective aspect views, and wherein said further data is correlated to data represented by said alphanumeric images mapped onto said perspective aspect views.
 - 5. A method for displaying data representing the operation of an exchange having a trading area including a plurality of trading posts whereat selected securities are traded, comprising:
- maintaining data representing a three-dimensional model of said exchange trading area, said model including model portions representing said trading posts;
- receiving and maintaining in a computer memory data representing trading of said securities; and
- generating a two dimensional display representing a selected aspect view of said three dimensional model, said selected aspect view including one or more of said model

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selectable and operative when selected to display further data from said computer memory correlated to said selected parts.

portions representing said trading posts, said model portions having selectable parts being

6. A method as specified in claim 5, wherein said model portions representing said trading posts include surfaces and wherein said step of generating a twodimensional display further comprises

generating alphanumeric images relating to securities traded at a selected trading post and mapping said alphanumeric images into selected ones of said surfaces in said two-dimensional display, and wherein said surfaces being operative when selected to display further data correlated to said related securities.

- 7. A method as specified in claim 4, wherein said alphanumeric images comprise identification of said securities.
- analyzing said data representing trading of said securities and identifying exceptional conditions relating thereto, generating image portions representing said exceptional conditions, and displaying said exceptional condition image portions in said two-dimensional display in correlation with display of model portions representing said trading posts at which said securities are traded.

A method as specified in claim 5, further comprising

I	9. A method as specified in claim 8 wherein said exceptional condition		
2	image portions are selectable and operative when selected to display further data concerning said		
3	exceptional condition.		
1	10. A method as specified in claim 5, further comprising		
2	monitoring data processing systems used in said exchange;		
3	identifying exceptional conditions in said data processing systems and the		
4	locations of said exchange effected by said exceptional conditions;		
5	generating image portions representing exceptional conditions of said data		
6	processing systems and displaying said exceptional condition image portions in said two		
7	dimensional display in correlation with said location of said exchange.		
1	11. A system for providing an interactive display of data relating to trading on		
2	an exchange having at least one data source, comprising:		
3	a computer system, configured and programmed to:		
4	(a) maintain data representing a three dimensional model of said		
5	exchange trading area, said model including surfaces;		
6	(b) receive data from said at least one data source;		
7	(c) format and normalize said data to provide formatted data of a		
8	predetermined format;		

9	(d) store and update said formatted data in at least one memory				
10	area;				
11	(e) generate a two dimensional display image of a three				
12	dimensional model from a selected aspect view, said display image having perspective views of				
13	at least some of said surfaces of said model;				
14	(f) generate alphanumeric images of selected data;				
15	(g) map said alphanumeric images onto selected ones of said				
16	perspective views;				
13 1317	(h) receive commands designating said aspect view and for				
17 18 19	retrieving further data and updating said display image;				
19	a control station for use by an operator to provide input commands to said				
20 (1)	computer system, including commands for selecting said aspect view; and				
1-21	at least one monitor for displaying said display image.				
21					
1	12. A system for providing an interactive display of data as specified in claim				
2	11 wherein the computer system is further configured and programmed to:				
3	change said selected aspect view of said three dimensional model;				
4	generate a further two dimensional display representing said changed				
5	aspect view, said further two dimensional display including further perspective views of at least				
6	some of said surfaces of said model; and				
7	map said alphanumeric images onto selected ones of said further				

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perspective views in said further two-dimensional display. 8

1	13. A system for providing an interactive display of data as specified in claim
2	11 wherein portions of said two dimensional display are selectable, said selectable display
3	portions being operable when selected for displaying further data correlated to said selectable
4	display portions.

- A system for providing an interactive display of data as specified in claim 14. 13 wherein at least some of said selectable display portions comprise said perspective aspect views, and wherein said further data is correlated to data represented by said alphanumeric images mapped onto said perspective aspect views.
- A system for displaying data representing the operation of an exchange 15. having a trading area including a plurality of trading posts whereat selected securities are traded, comprising a computer system, configured and programmed to:
- maintain data representing a three-dimensional model of said exchange trading area, said model including model portions representing said trading posts;
- receive and maintain in a computer memory data representing trading of said securities; and
- generate a two dimensional display representing a selected aspect view of said three dimensional model, said selected aspect view including one or more of said model



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portions representing said trading posts, said model portions having selectable parts being selectable and operative when selected to display further data from said computer memory correlated to said selected parts.

16. A system for displaying data representing the operation of an exchange as specified in claim 15, wherein said model portions representing said trading posts include surfaces and wherein the computer system is further configured and programmed to generate alphanumeric images relating to securities traded at a selected trading post and map said alphanumeric images into selected ones of said surfaces in said two-dimensional display, and wherein said surfaces being operative when selected to display further data correlated to said related securities.

- 17. A system for displaying data representing the operation of an exchange as specified in claim 16, wherein said alphanumeric images comprise identification of said securities.
- 18. A system for displaying data representing the operation of an exchange as specified in claim 15, wherein the computer system is further configured and programmed to:

 analyze said data representing trading of said securities and identifying exceptional conditions relating thereto;

generate image portions representing said exceptional conditions; and

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display said exceptional condition image portions in said two-dimensional
display in correlation with said display of model portions representing said trading posts at which
said securities are traded.

19. A system for displaying data representing the operation of an exchange as specified in claim 18 wherein said exceptional condition image portions are selectable and operative when selected to display further data concerning said exceptional condition.

20. A system for displaying data representing the operation of an exchange as specified in claim 15, wherein the computer system is further configured and programmed to monitor data processing systems used in said exchange;

identify exceptional conditions in said data processing systems and the locations of said exchange effected by said exceptional conditions;

generate image portions representing exceptional conditions of said data processing systems; and

display said exceptional condition image portions in said two dimensional display in correlation with said location of said exchange.